California Regional Water Quality Control Board
North Coast Region

MONITORING AND REPORTING PROGRAM NO. R1-2003-0134

FOR

GURDJIEFF FOUNDATION
ON-SITE WASTEWATER TREATMENT AND DISPOSAL FACILITIES

Sonoma County

Flow Monitoring

The maximum daily wastewater flow to the at-grade system and the subsurface drip irrigation system shall be measured by flow meter, dose counter, or other method approved by the Executive Officer.

Groundwater Monitoring

1. Monitoring Locations

   The groundwater monitoring well network shall consist of monitoring wells located upgradient and downgradient of the at-grade system and the subsurface drip irrigation system. Monitoring well locations, subject to approval by the Executive Officer, shall include at least one upgradient monitoring well to measure background groundwater quality at the site, and at least two monitoring wells downgradient of each waste disposal system. Additional groundwater monitoring locations may be added as necessary.

2. Monitoring Schedule

   Groundwater samples shall be collected quarterly and analyzed for the following constituents:

Parameter	Units	Type of Sample	Sampling Frequency
Nitrate-Nitrogen	mg/l as N	Grab	Quarterly
Total Coliform Organisms	MPN/100 ml	Grab	Quarterly
Fecal Coliform Organisms	MPN/100 ml	Grab	Quarterly

3. Groundwater Elevation

   The groundwater surface elevation (in feet and hundredths, M.S.L) in all groundwater monitoring wells shall be measured on a quarterly basis and other times when groundwater monitoring occurs, and shall be used to determine groundwater depth and direction of flow. Measurement shall be taken prior to purging the well, and shall include top of casing elevation, depth to groundwater and water table elevation for each groundwater monitoring well. This information shall be displayed on a water table contour map and/or groundwater flow net and included in the annual monitoring report. Groundwater monitoring wells shall be screened at a depth that ensures consistent readings for depth to groundwater.

Maintenance and Inspection

1. The Permittee shall make surface inspections of all septic tanks and leach fields not less than monthly to record any odors, evidence of surfacing effluent, or other signs of malfunction. Septic tanks shall be inspected and pumped as described below. An inspection is not required during the year a septic tank is pumped.

Parameter	Units	Type of Minimum Measurement	Inspection Frequency
Sludge depth and scum thickness in each compartment of each septic tank	Feet	Staff Gauge	Annually (by April of each year)
Distance between bottom of scum layer and bottom of outlet device	Inches	Staff Gauge	Annually (by April of each year)
Distance between top of each sludge layer and bottom of outlet device	Inches	Staff Gauge	Annually (by April of each year)

2. Septic tanks shall be pumped when any one of the following conditions exist or may occur before the next inspection:

   a. The combined thickness of sludge and scum exceeds one-third of the tank depth of the first compartment; or,
   b. The scum layer is within three inches of the outlet device; or,
   c. The sludge layer is within eight inches of the outlet device.

Routine Reporting

The Permittee shall submit an annual report to the Regional Water Board for each calendar year. The report shall be submitted by January 15th of the following year. The Report shall include, at a minimum, the following:

1. *Letter of transmittal*: Each Report shall be submitted with a letter of transmittal. This letter shall include the following:

   a. Identification of the facility: Name, address, WDID number;
   b. Date of Report and monitoring period;
   c. Identification of all violations of discharge requirements found during the monitoring period;
   d. Details of the violations: parameters, magnitude, test results, frequency, and dates;
   e. The cause of the violation;
   f. Discussion of corrective actions taken or planned to resolve violations and prevent recurrence, and dates or time schedule of action implementation; and
   g. The authorized signature and certification statement.

2. *Results of Analyses and Observations*

   a. The maximum average daily flow to each leachfield (in gallons per day) for each month of the previous 12 months, and any observations indicating surfacing effluent or equipment malfunction;
   b. Tabulations of all required analyses, including parameter, sample date and time, sample station, and test result;
   c. The date and results of the required internal visual inspection of septic tanks and, when applicable, the volume of waste pumped from individual tanks; and
   d. If the Permittee monitors any pollutant at the locations designated herein more frequently than is required by this Permit, the results of such monitoring shall be included in the calculation and reporting of any values required in the discharge monitoring report.

Special Report

By March 1, 2004, the Permittee shall submit a report for the approval of the Executive Officer of the North Coast Regional Water Quality Control Board demonstrating the adequacy of the existing groundwater monitoring system to determine groundwater conditions at the site and to detect potential degradation of groundwater quality resulting from the discharge. At a minimum, the report shall include an analysis of the existing groundwater data, the expected wastewater quality, and the design and location of groundwater monitoring wells.

Ordered by: _____
Catherine E. Kuhlman
Executive Officer

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